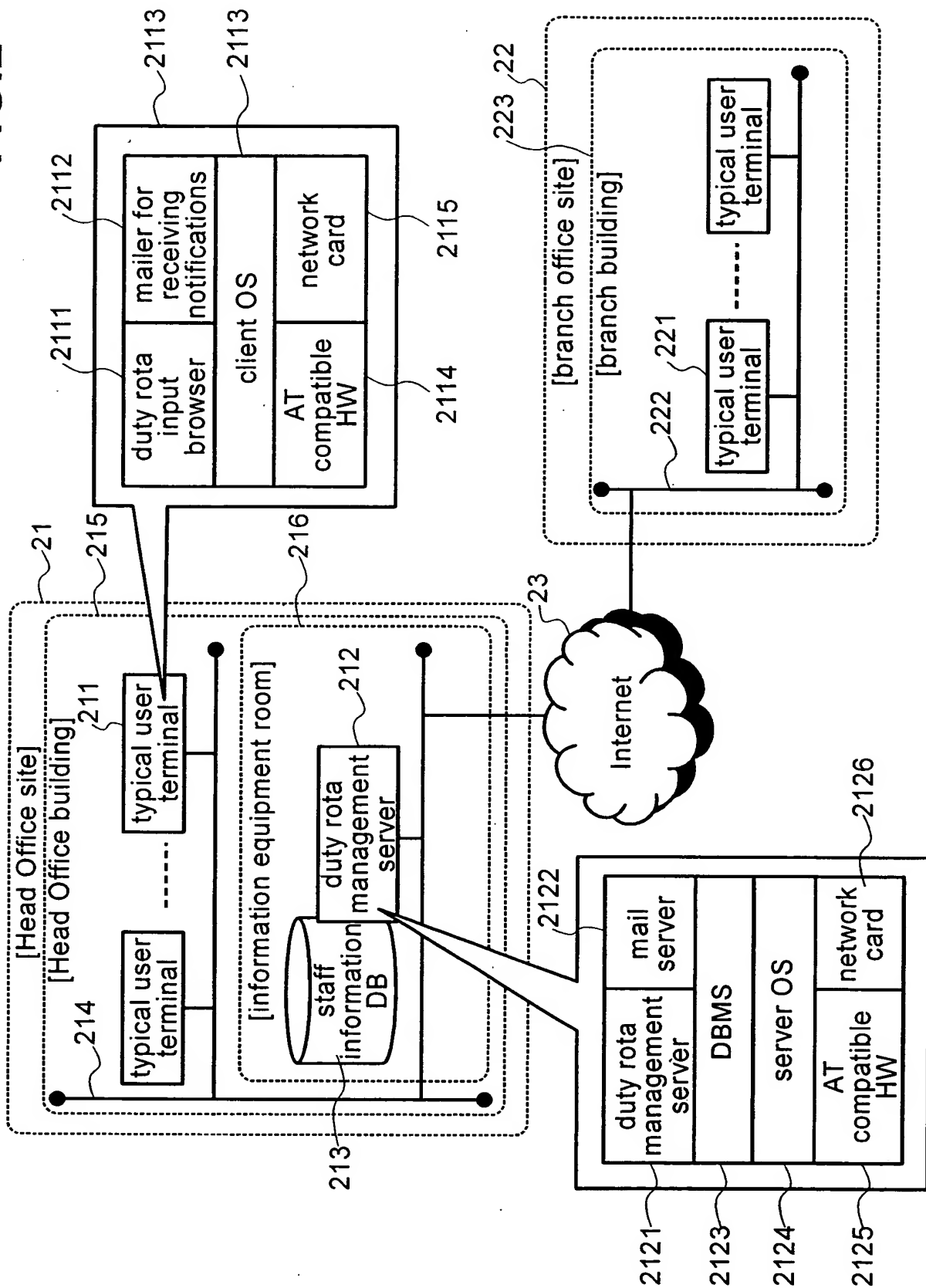


FIG.1

# FIG.2



# FIG.3

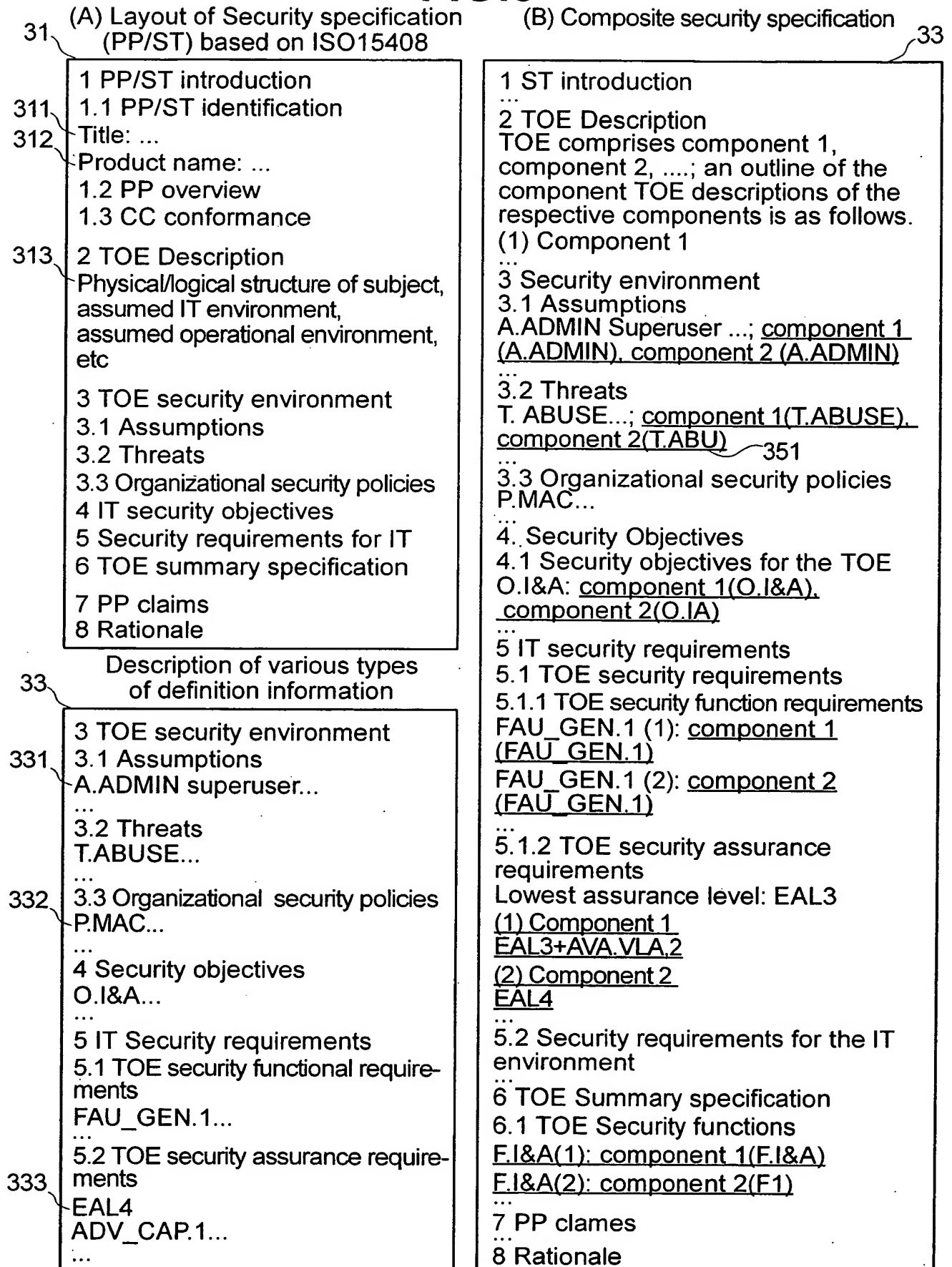
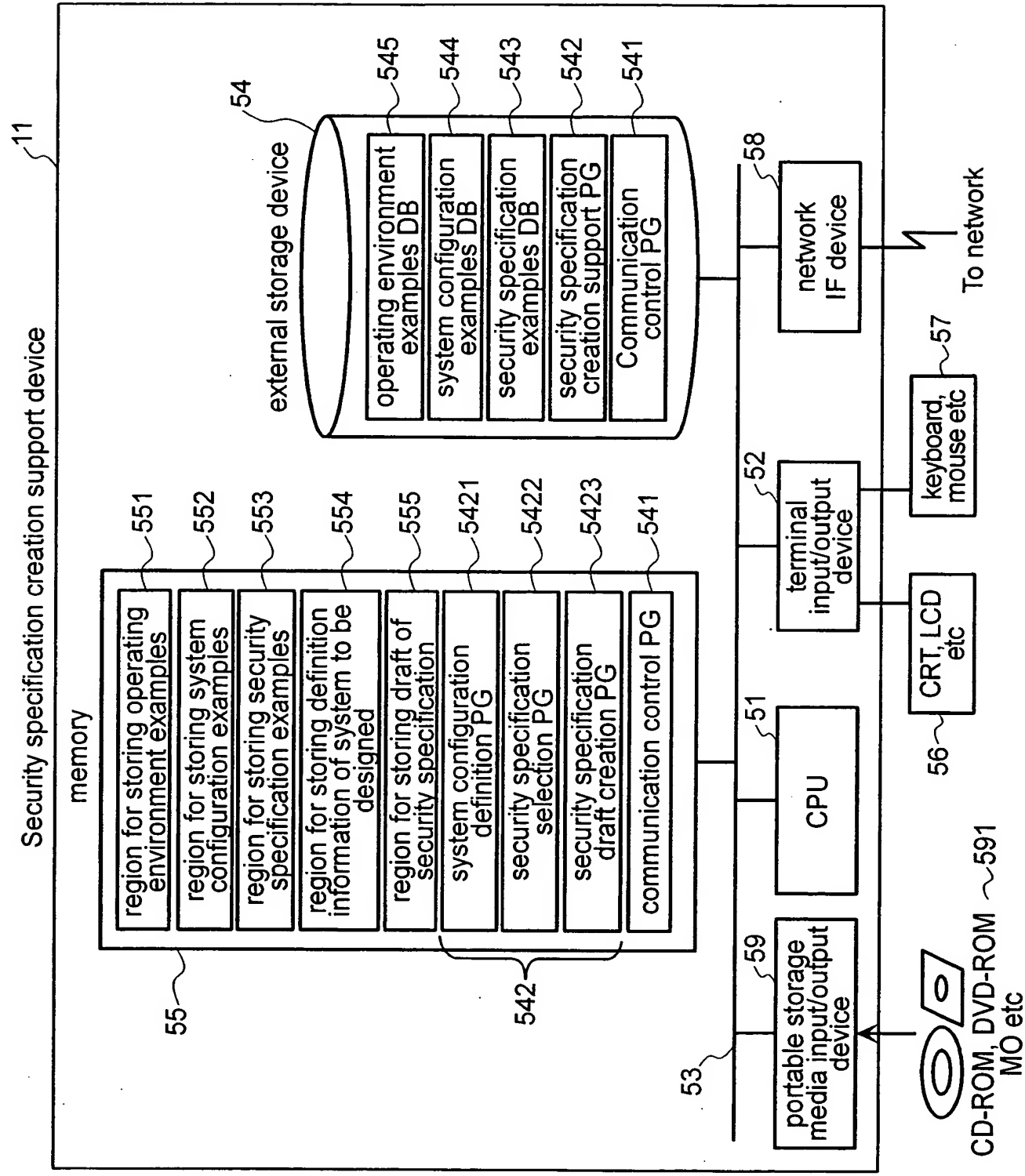
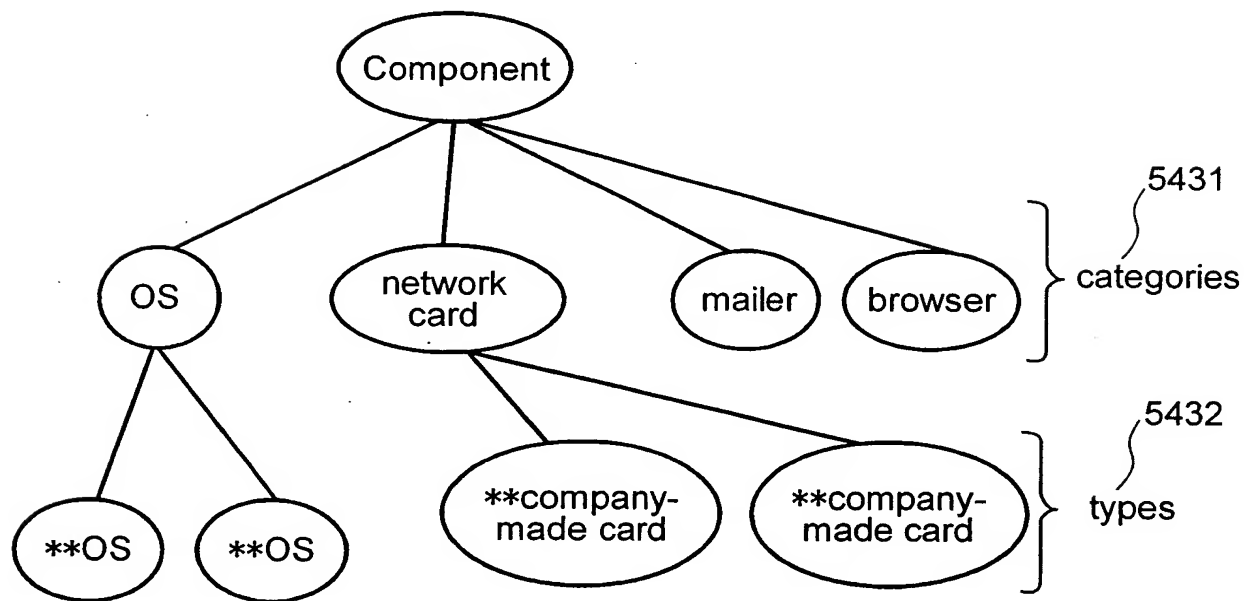


FIG.4



**FIG.5**

Security specification examples DB 543



# FIG.6

System configuration examples DB544

```
< subsystem > ~ 5443a
< element name > IT equipment < /element name > ~ 5446
< component >
< element name > application layer < /element name >
< /component >
< component > ~ 5444a
< element name > middleware layer < /element name > ~ 5447
< /component >
< component > ~ 5444b
< element name > OS layer < /element name >
< /component >
< component >
< element name > hardware layer < /element name >
< /component >
< /subsystem > ~ 5443b

< subsystem >
< element name > IC card < /element name >
< component >
< element name > application layer < /element name >
< /component >
< component >
< element name > OS layer < /element name >
< /component >
< component >
< element name > hardware layer < /element name >
< /component >
< /subsystem >

< subsystem >
< element name > H Inc IC card < /element name >
< component >
< element name > application < /element name >
< definition text > < /definition text >
< specification > < /specification >
< /component >
< component >
< element name > IC card OS < /element name >
< definition text > This IC card OS... < /definition text >
< specification > "A Inc IC card OS ST v2.0" < /specification >
< /component >
< component >
< element name > IC chip < /element name >
< definition text > This IC chip... < /definition text >
< specification > "H Inc IC chip ST v1.1" < /specification >
< /component >
< /subsystem >
```

5441  
System  
deployment  
pattern

## FIG.7

Operational environment example DB545

```
< subsystem >
< element name > IT equipment < /element name >
< operation > Operation is performed to ensure password secrecy < /operation >
< component >
< element name > application layer < /element name >
< operation > The password is not displayed on the screen when input. < /operation >
< operation > The password is not recorded in a readable form on paper or the like. < /operation >
...
< /component >
< component >
< element name > OS layer < /element name >
< operation > The password is not displayed on the screen when input. < /operation >
< operation > The password is not recorded in a readable form on paper or the like. < /operation >
< operation > The password is periodically changed. < /operation >
...
< /component >
< /subsystem >

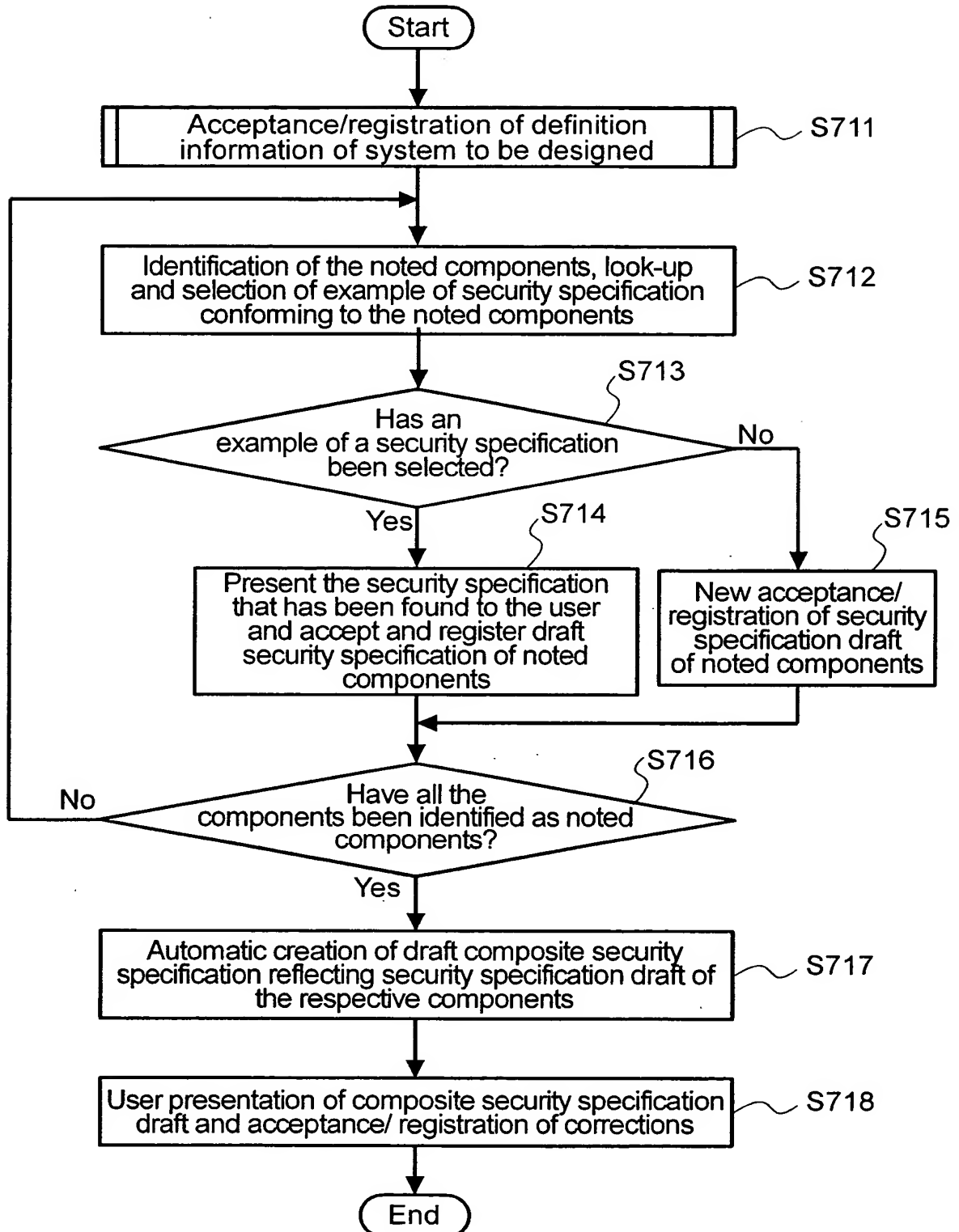
< subsystem >
...
< /subsystem >
```

5452

5451

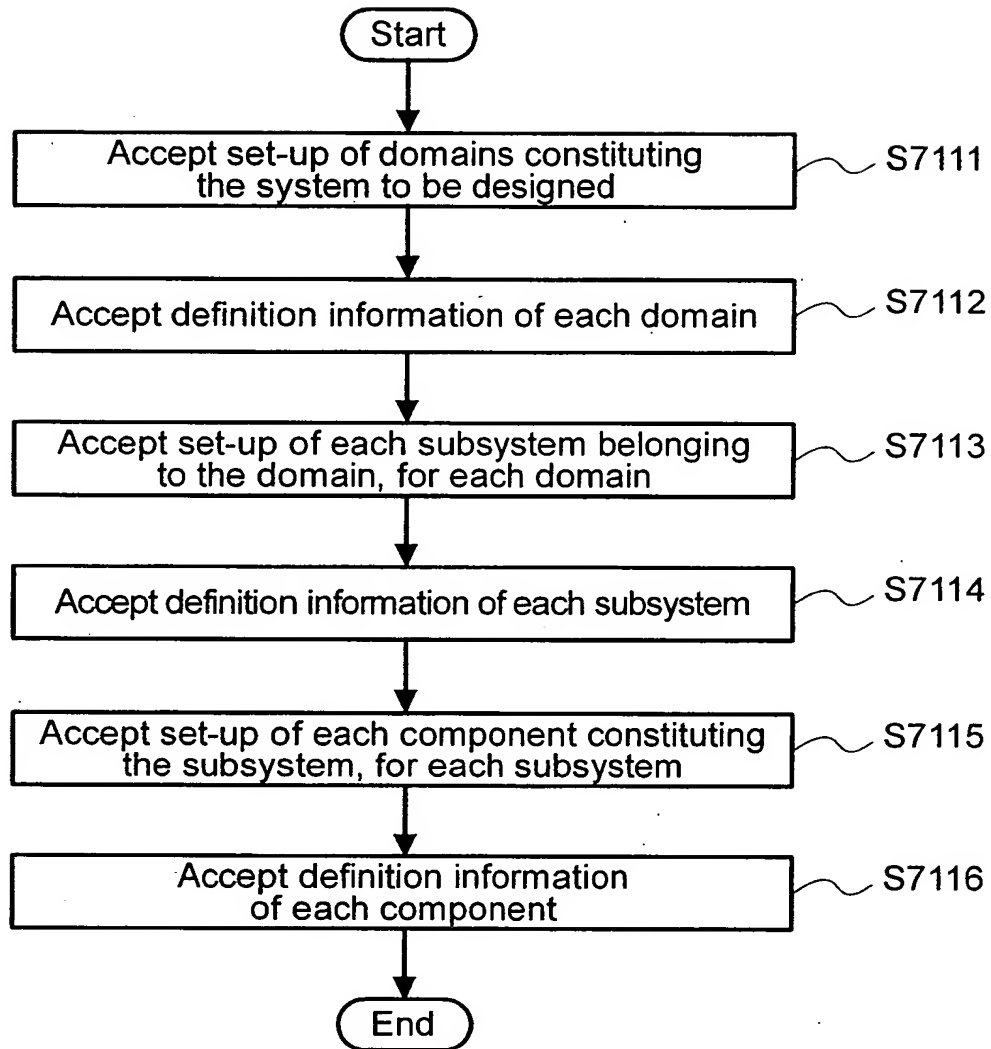
Operational environment pattern

**FIG.8**



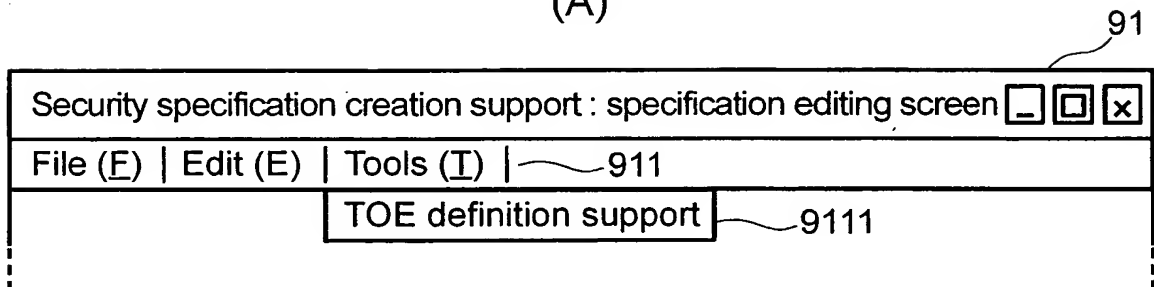


**FIG.9**

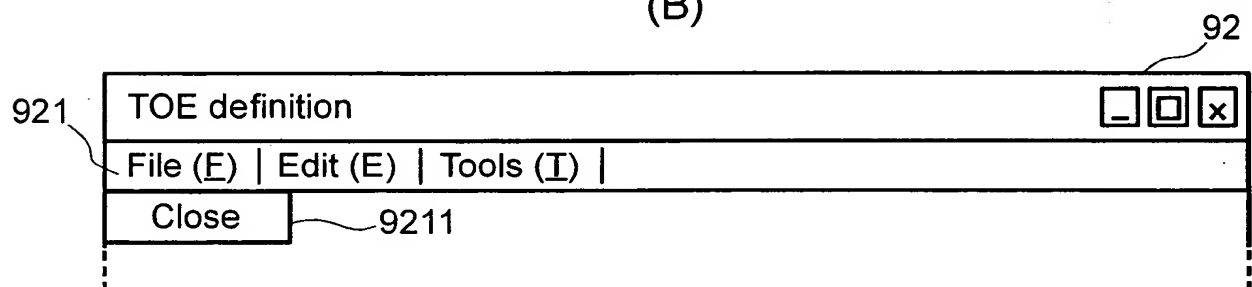


# FIG.10

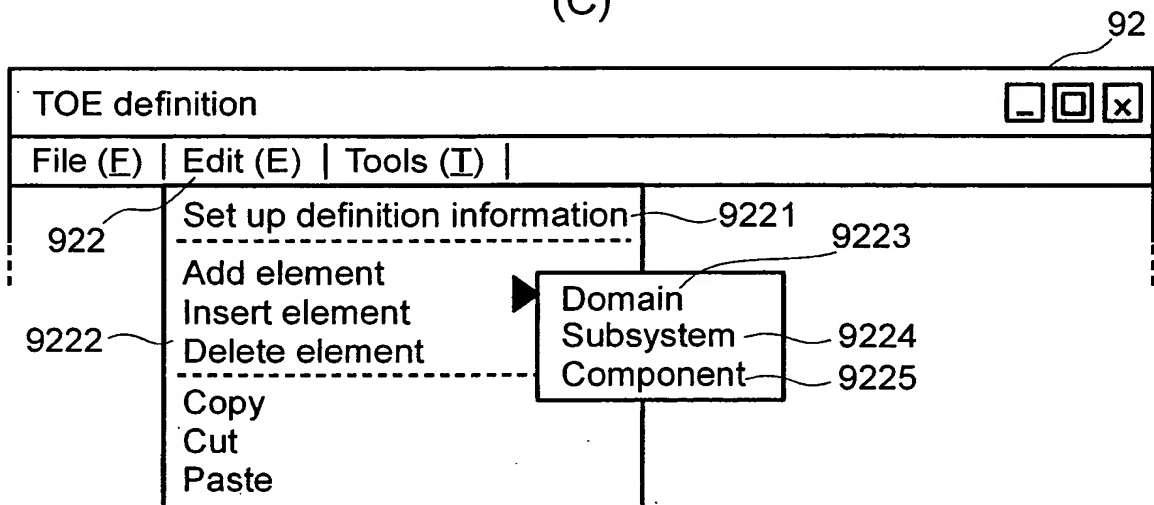
(A)



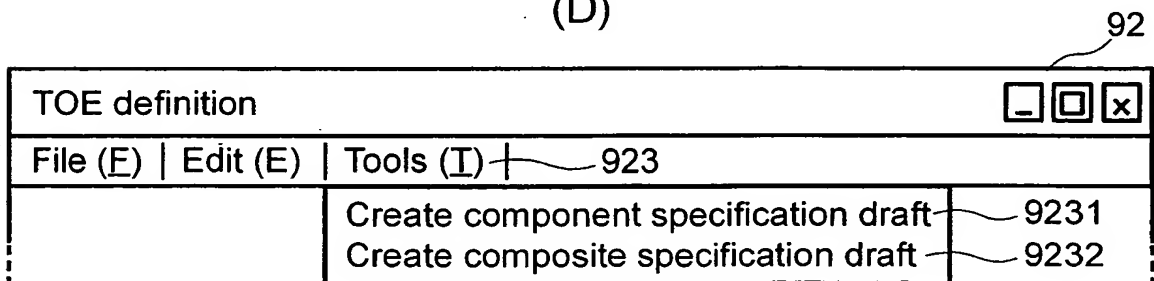
(B)



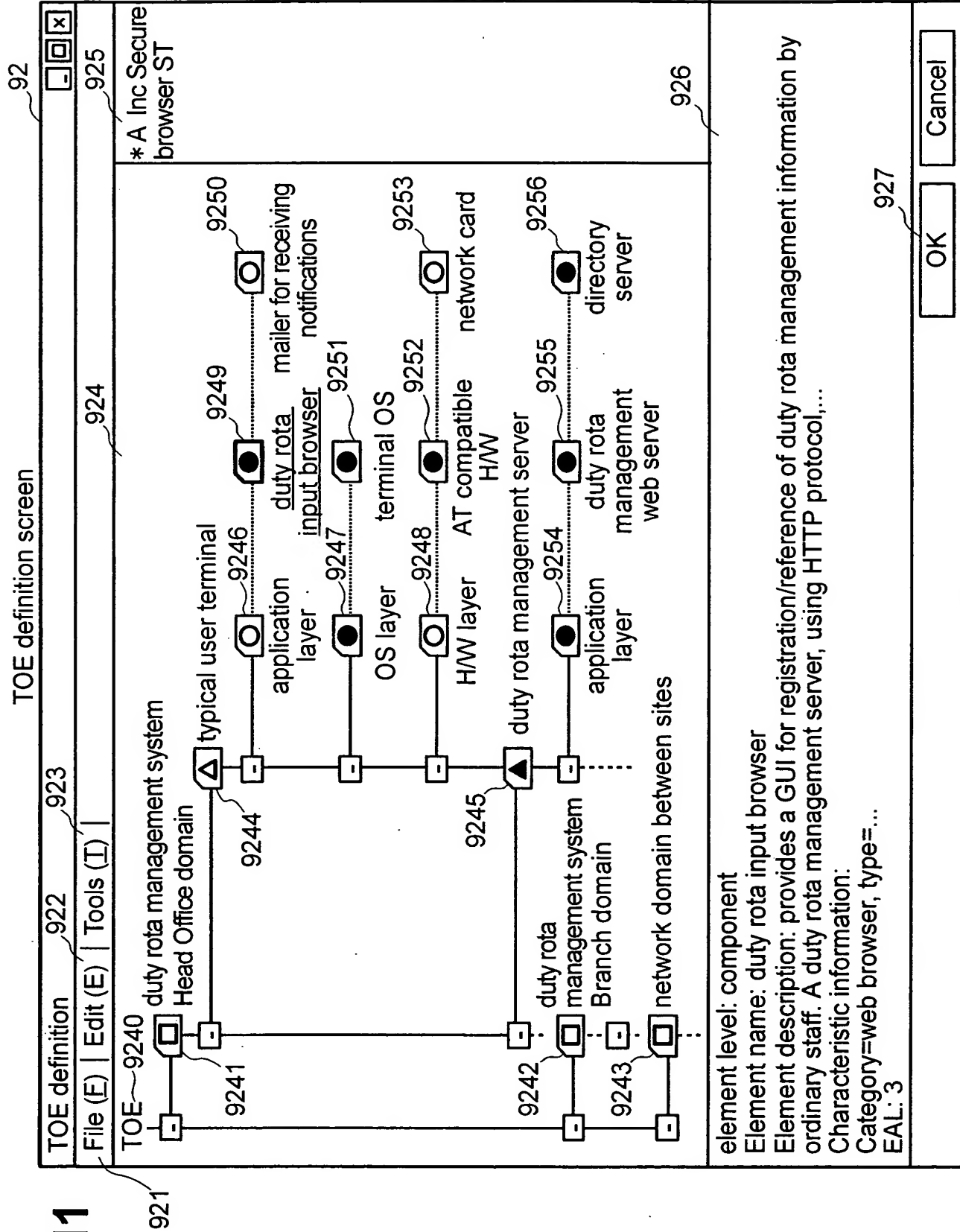
(C)



(D)



# FIG.11



**FIG. 12**

Domain definition screen 93

Domain definition-TOE : duty rota management system

932 domain name

Head Office site

933 domain description

this is a group of sub-systems provided in the Head Office building,...

934 asset name

secret information

935 domain with I/F

opponent domain candidates with inter-domain I/F

branch office site  
network domain between sites

Add >>

<< delete

opponent domain with inter-domain I/F

network between sites

936 operational environment

To perform encrypted communication

937 OK

Cancel

## Subsystem definition screen

Subsystem definition-Head Office site	
941	<div> <div>subsystem type</div> <div> <div>IT equipment</div> <div>IC card</div> <div>H Inc IC card</div> </div> </div>
942	<div> <div>Subsystem name</div> <div>typical user terminal (Head office)</div> </div>
943	<div> <div>subsystem description</div> <div>client terminal employed by a typical user when accessing the duty rota management server in the Head office building. When using this terminal,...</div> </div>
944	<div> <div>asset name</div> <div>staff individual information</div> </div>
945	<div> <div>domain with I/F</div> <div> <div> <div>Opponent subsystem candidates with I/F between subsystems</div> <div> <div>duty rota management server</div> <div>Head Office network</div> <div>Inter-site network</div> <div>Branch network</div> <div>Typical user terminal (branch office)</div> </div> <div> <div>Opponent subsystem with I/F between sub-systems</div> <div>Head Office network</div> </div> </div> <div>9451</div> <div>9452</div> <div>Add &gt;&gt;</div> <div>&lt;&lt; delete</div> </div> </div>
946	<div> <div>Operational environment</div> <div> <div>Operation is performed to ensure secrecy of passwords.</div> <div>Log off from terminal on termination of business software after lapse of a fixed time.</div> </div> </div>
<div> <div>947</div> <div>OK</div> <div>Cancel</div> </div>	

# FIG.14

Component definition screen

95

Component definition-subsystem : typical user terminal		<input type="button" value="OK"/> <input type="button" value="X"/>	
951 component type	application layer		
952 component name	duty rota input browser		
953 component description	this provides a GUI for registration/reference of duty rota management information by ordinary staff. A duty rota management server, using HTTP protocol,...		
954 asset name	"staff duty rota information", "user ID", "password"		
955 component with I/F	9552 Add >> << delete	Opponent components with I/F between components terminal OS	
959 related components	9592 Add >> << delete	Related components terminal OS duty rota management server	
956 Operational environment	the password is not displayed on screen when input. Password is not recorded in a readable form on paper or the like. The user's ID cannot be shared by a plurality of users.		
958 Component characteristics	Please set characteristic information for each type of characteristic.		
960 EAL	category 3	web browser type designated specification/product	OK Cancel

957

961

## Screen for selection of examples of re-use

Selection of examples of re-use-noted component : network card		<input type="button" value="OK"/> <input type="button" value="Cancel"/>
<div>Examples of security specifications found</div> <div> Smart card Integrated Circuit PP v0.9  Smart card Operating System PP v1.2  H Inc IC card Security Target ver.1.1  Smart Card Embedded Software ST ver.2.0 </div>	<div> <div>Add &gt;&gt;</div> <div>&lt;&lt; delete</div> </div> <div>962</div>	<div>Example of security specification to be re-used</div> <div>Smart card Integrated Circuit PP v0.9</div>
<div> <div>Title: Smart Card Integrated Circuit Protection Profile</div> <div>Version: 0.9 (draft)</div> <div>Date: Jan 1, 2003</div> <div>Author: Smart Card Vender Group</div> <div>Registration: SCIC-PP</div> <div>...</div> <div>Overview:</div> <div>This PP describes the IT security requirements for a smart card to...</div> </div>		
		<div>964</div> <div> <input type="button" value="OK"/> <input type="button" value="Cancel"/> </div>

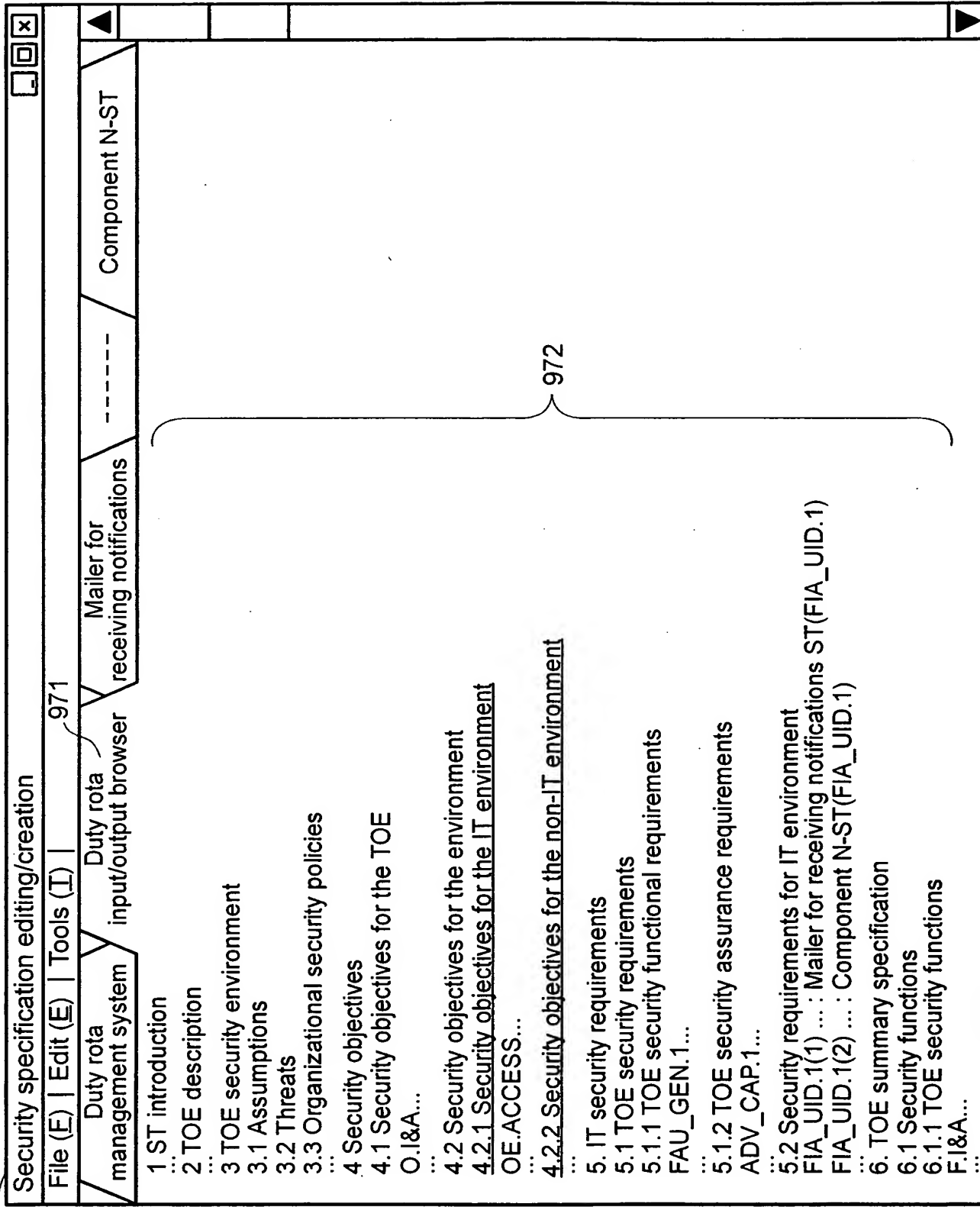
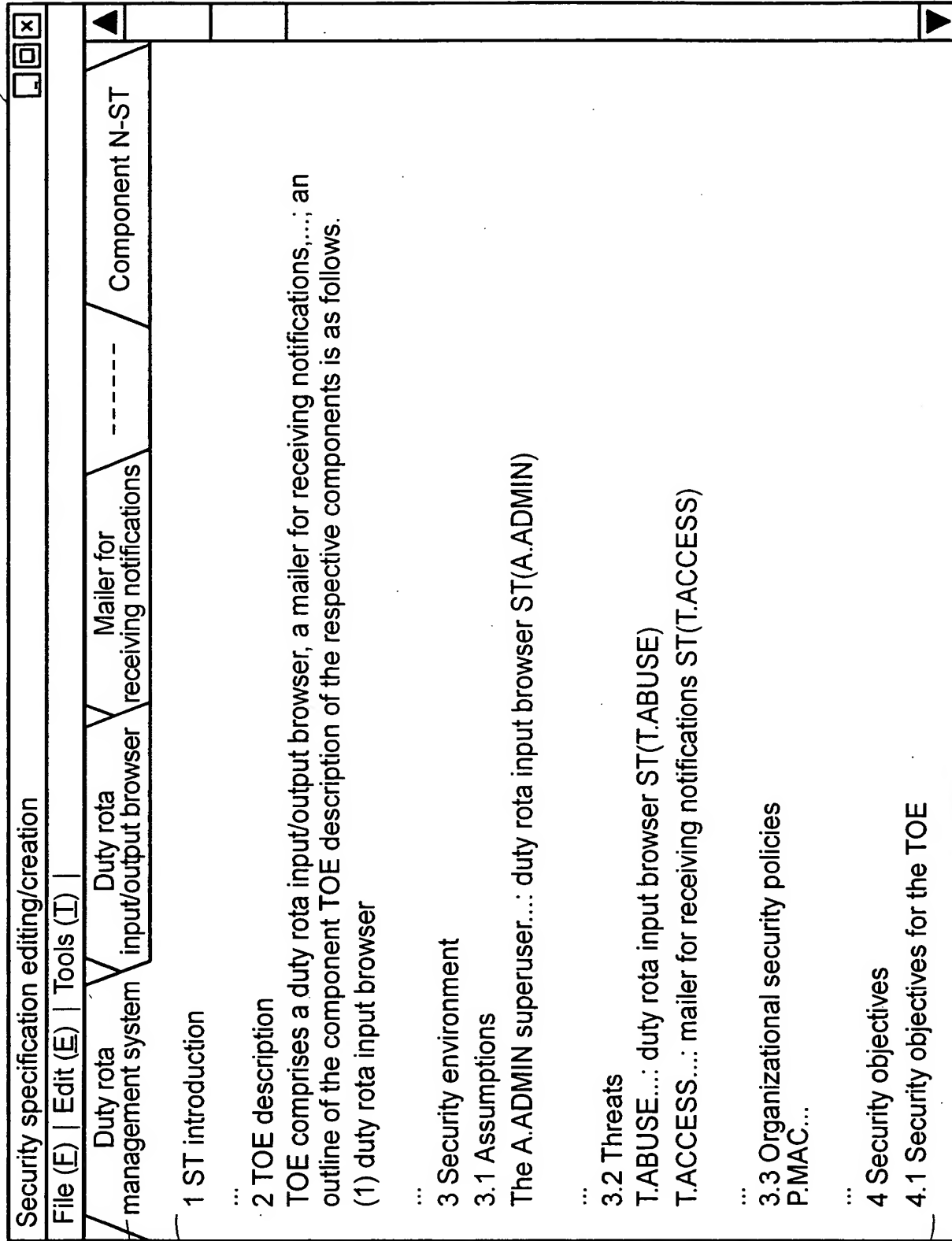


FIG.16



**FIG.17**



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97

# FIG.18

